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NEW TECHNOLOGIES TO INNOVATE

NC/QC/APD/2020-21/KL-DS2

Date: 08-07-2021

LATEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1258**	900
2	Marshall Flow at 60°C, mm.	**3.46**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road.

A.E.E (Project)

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NEW TECHNOLOGIES TO INNOVATE

NC/QC/APD/2020-21/KL-DBM3 **Date: 12-07-2021**

TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

(Project* Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**98.05**	90-100
19.0	**82.30**	71-95
13.20	**74.75**	56-80
4.75	**47.40**	38-54
2.36	**33.95**	28-42
0.300	**18.10**	7-21
0.075	**6.45**	2-8

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Akshara Layout, 1st Cross Rd

Page No. 1/1

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

Date: 13-07-2021

TEST REPORT ON BITUMINOUS MIXES

(QUALITY OF BITUMINOUS MIX)

To determine the stability of bituminous mix for DBM mix sample

for improvements to roads and drains at Someswara Layout Kalidasa layout, Palanahalli and Surrounding area in Ward No 05 (Jakkur) Byatarayanapura Sub division)

Mineral Testing (MT - 20-21

Tests Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore

Name of the Agency/Contractor : K R Santosh Kumar, Bangalore

TEST RESULTS

Table 1. Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M o R T & H (IV Revision)- 2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs	1246	900
2	Marshall Flow at 60°C, mm	3.34	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site : Akshara Layout, 1st Cross Rd

Page No. 1/1

A.E.E (Project)

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newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL-DBM4

Date: 13-07-2021

LTEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

(Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.45**	90-100
19.0	**83.55**	71-95
13.20	**71.60**	56-80
4.75	**49.10**	38-54
2.36	**35.80**	28-42
0.300	**19.25**	7-21
0.075	**6.15**	2-8

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Sub Cross Rd.

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Page No. 1/1

A.E.E (Project)

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NEW TECHNOLOGIES TO INNOVATE

W.O. NCV/PD/2020-21/KL-084 Date: 13-07-2021

LABORATORY REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Work : To determine the stability of bituminous mix for DBM mix sample
Project : Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No 05 (Jakkur) Byatarayanapura Sub division)

Ref. Material testing: PMC/20-21.

Letter Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor* : K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1262**	900
2	Marshall Flow at 60°C, mm.	**3.54**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Sub Cross Rd.

Page No. 1/1

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

W/O/C/PD/2020-21/KL-DBM5 **Date: 16-07-2021**

LABS REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub : To determine the percentage of bitumen and gradation for DBM mix sample.
(Name of Work) Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref. Material testing PMC 20-21.

Report Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency /Contractor* : K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.51 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	96.15	90-100
18.0	83.15	71-95
13.20	71.40	56-80
4.75	46.70	38-54
2.36	33.05	28-42
0.300	17.90	7-21
0.075	5.65	2-8

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Akshara Layout Main Rd.

Page No. 1/1

A.E.E (Project)

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NEW TECHNOLOGIES TO INNOVATE

NCQC/VPD/2020-21/KL-DS5

Date: 16-07-2021

LATEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

(Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: **Properties of DBM (Gr-2) Mix**

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1252**	900
2	Marshall Flow at 60°C, mm.	**3.44**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Akshara Layout Main Rd.

A.E.E. (Project)

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NC/QC/APD/2020-21/KL-DBM6 **Date: 17-07-2021**

LATEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub : To determine the percentage of bitumen and gradation for DBM mix sample.
(Project* Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref. Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**98.05**	90-100
19.0	**86.30**	71-95
13.20	**74.60**	56-80
4.75	**45.10**	38-54
2.36	**32.95**	28-42
0.300	**18.10**	7-21
0.075	**6.45**	2-8

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Kattigenahalli Lake Rd .

Page No. 1/1

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL-DS6

Date: 17-07-2021

LTEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
(Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1254**	900
2	Marshall Flow at 60°C, mm.	**3.42**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Kattigenahalli Lake Rd.

Page No. 1/1

A.E.E. (Project)

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NEW TECHNOLOGIES TO INNOVATE

NC/QC/VPD/2020-21/KL-BB1

Date: 07-07-2021

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

(Project: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1:

Sl No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1	Penetration at 25^0 C	**50.40^0 C**	Min. 45
2	Ductility Value at 25^0 C	**106.90 cm**	40
3	Flash point	**238^0 C**	Minimum 220^0 C
4	Softening point	**50.70^0 C**	Min. 47

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Smashana Road

Page No. 1/1,

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

NCQC/YPD/2020-21/KL-CB1 **Date: 07-07-2021**

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
Project: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)
Ref: Material testing PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TABLE 1.1;

Sl No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.84 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**28.19 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Specific gravity	**2.61**	-------
5.	Soundness	**5.36 %**	Max. 12 % in Sodium Sulphate

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road

Page No. 1/1,

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

NCC/CAPD/2020-21/KL-BC1 **Date: 09-07-2021**

LTEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub :To determine the percentage of bitumen and gradation for BC mix sample.

(Project: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref: Material testing/PMC/20-21.

Report Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**83.10**	70-88
4.75	**65.50**	53-71
2.36	**52.25**	42-58
1.18	**44.35**	34-48
0.600	**31.75**	26-38
0.300	**24.60**	18-28
0.150	**18.25**	12-20
0.075	**7.15**	4-10

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Smashana Road

Page No. 1/1

A.E.E for (Project)

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NEW TECHNOLOGIES TO INNOVATE

NCQC/YPD/2020-21/KL-BSI

Date: 09-07-2021

TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub : To determine the stability of bituminous mix for BC mix sample.

(Project* Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref. Material testing/PMC/20-21.

Report Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1356**	900
2	Marshall Flow at 60°C, mm.	**3.48**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Smashana Road

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

NCC/YPD/2020-21/KL-BC2

Date: 09-07-2021

LATEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

(Project* Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

B. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42%**

C. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	96.15	90-100
9.5	83.30	70-88
4.75	67.95	53-71
2.36	52.40	42-58
1.18	44.70	34-48
0.600	31.05	26-38
0.300	26.35	18-28
0.150	17.55	12-20
0.075	8.20	4-10

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Smashana Road

A.E.E (Project)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL-BS2

Date: 09-07-2021

LTEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
(Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1362**	900
2	Marshall Flow at 60°C, mm.	**3.54**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Smashana Road.

Page No. 1/1

A.E (Project)

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NEW TECHNOLOGIES TO INNOVATE

Ref No: NCB/2020-21/KL-BC3 Date: 14-07-2021

TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Work : To determine the percentage of bitumen and gradation for BC mix sample.
Name of Work : Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No 05 (Jakkur) Byatarayanapura Sub division.)

Work : Material testing PMC 20-21.

Work Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor* : K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	97.25	90-100
9.5	80.10	70-88
4.75	67.50	53-71
2.36	52.15	42-58
1.18	41.35	34-48
0.600	34.75	26-38
0.300	22.60	18-28
0.150	16.25	12-20
0.075	7.15	4-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Akshara Layout Main Rd.

A.E.E (Project)

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EMAIL.newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/KL-BS3 **Date: 14-07-2021**

TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1358**	900
2	Marshall Flow at 60°C, mm.	**3.46**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Akshara Layout Main Rd.

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NEW TECHNOLOGIES TO INNOVATE

W/QC/PD/2020-21/KL-BC4 **Date: 15-07-2021**

TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
(Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)
Ref. Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**95.65**	90-100
9.5	**81.30**	70-88
4.75	**64.95**	53-71
2.36	**51.25**	42-58
1.18	**43.70**	34-48
0.600	**31.05**	26-38
0.300	**24.35**	18-28
0.150	**18.75**	12-20
0.075	**6.20**	4-10

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Akshara Layou, 1st Cross Rd.

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Page No. 1/1

(Project)

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NEW TECHNOLOGIES TO INNOVATE

NCB/TPD/2020-21/KL-BS4 **Date: 15-07-2021**

TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Project: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref: Material testing PMC/20-21.

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor* : K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1364**	900
2	Marshall Flow at 60°C, mm.	**3.56**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Akshara Layou, 1st Cross Rd.

A.E.E. (Project)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/2020-21/KL-BC5 **Date: 19-07-2021**

TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub :Project*: To determine the percentage of bitumen and gradation for BC mix sample.
Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**94.25**	90-100
9.5	**82.10**	70-88
4.75	**66.50**	53-71
2.36	**51.25**	42-58
1.18	**44.35**	34-48
0.600	**30.75**	26-38
0.300	**23.60**	18-28
0.150	**18.25**	12-20
0.075	**6.15**	4-10

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Sub Cross Rd

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Page No. 1/1

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Date: 19-07-2021

LABORATORY TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
(Project*: Improvements to roads and drains at Someswara Layout,Kalidasa layout, Palanahalli and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: K.R Santosh Kumar, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1350**	900
2	Marshall Flow at 60°C, mm.	**3.44**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Sub Cross Rd

Page No. 1/1

A.E.E. (Project)

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